

REMARKS

Claims 1-20 remain in this application.


Entry of the above amendments is earnestly solicited.
An early and favorable first action on the merits is earnestly requested.

Should there be any matters that need to be resolved in the present application, the Examiner is respectfully requested to contact the undersigned at the telephone number listed below.

The Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 25-0120 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17.

Respectfully submitted,

YOUNG & THOMPSON



Eric Jensen, Reg. No. 37,855
745 South 23rd Street
Arlington, VA 22202
Telephone (703) 521-2297
Telefax (703) 685-0573
(703) 979-4709

EJ/yr

APPENDIX:

The Appendix includes the following item(s):

- ☒ - a new or amended Abstract of the Disclosure
- ☐ - a Replacement Sheet for Figure of the drawings
- ☐ - a Substitute Specification and a marked-up copy of the originally-filed specification
- ☐ - a terminal disclaimer
- ☐ - a 37 CFR 1.132 Declaration
- ☐ - a Substitute Specification and a marked-up copy of the originally-filed specification
- ☐ - a verified English translation of foreign priority document

ABSTRACT OF THE DISCLOSURES

A method for locally determining a profile of geological horizons includes a step (100) which consists in digital modeling with continuous local seismic traces, calculating an optimal offset and defining a conditional neighborhood of a reference central continuous local seismic trace; a step (101) which consists in defining residuals relative to the reference central continuous local seismic trace; a third step (102) which consists in minimizing the set of residuals on the conditional neighborhood and a fourth step (103) which consists in determining parametric coefficients corresponding to the minimization of the set of residuals on the conditional neighborhood carried out at step (102).